

ABSTRACT OF THE DISCLOSURE

An aqueous solution for depositing an inorganic corrosion resistant coating on a metal substrate is disclosed. The aqueous solution comprises a film-forming agent, a supplemental anion, and a substrate activator. The film-forming agent is a vanadate salt that forms the corrosion resistant coating. The supplemental anion accelerates the rate at which the corrosion resistant coating is formed. The substrate activator serves to remove any existing oxides from the metal substrate prior to the formation of the corrosion resistant coating. The present invention additionally covers objects so coated and methods of application.